Cyclohexylamine, N,N-dimethyl-1-phenyl-

Inchi: InChI=1S/C14H21N/c1-15(2)14(11-7-4-8-12-14)13-9-5-3-6-10-13/h3,5-6,9-10H,4,7-8,11-
InchiKey: FQPQJXVSQZUUQU-UHFFFAOYSA-N
Formula: C14H21N
SMILES: CN(C)C1(c2ccccc2)CCCCC1
Mol. weight [g/mol]: 203.32
CAS: 2201-17-4

Physical Properties

Property code	Value	Unit	Source
gf	309.15	kJ/mol	Joback Method
hf	41.33	kJ/mol	Joback Method
hfus	14.61	kJ/mol	Joback Method
hvap	50.36	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.408		Crippen Method
mcvol	183.480	ml/mol	McGowan Method
pc	2543.05	kPa	Joback Method
tb	578.63	K	Joback Method
tc	815.79	K	Joback Method
tf	337.71	K	Joback Method
vc	0.660	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.63	J/mol×K	578.63	Joback Method
cpg	491.11	J/mol×K	618.16	Joback Method
cpg	511.95	J/mol×K	657.68	Joback Method
cpg	531.37	J/mol×K	697.21	Joback Method
cpg	549.56	J/mol×K	736.74	Joback Method
cpg	566.70	J/mol×K	776.26	Joback Method
cpg	583.00	J/mol×K	815.79	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2201174&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume